

NR/L3/CIV/151/F010: Index of Standard Designs and Details for Building and Civil Engineering Works

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The following provides lists of Drawings (in Part A), Engineering Assurance Forms (in Part B) and Technical User Manuals (in Part C). The current revision of *the drawings, Forms and Manuals* is defined along with the issue date of this Index in which they were first provided: changes introduced in this Issue of the Index are shown in bold (that is, **02/06/12**).

Part A: Drawings

Reference	Revision	Issued	Title
A1: Brickwork and masonry repairs			
NR/CIV/SD/101	A	05/09/09	Specification for the Works
NR/CIV/SD/102	A	05/09/09	Standard brickwork bonds
NR/CIV/SD/103	A	05/09/09	Re-casing of defective brickwork in arches and tunnel linings greater than 4 rings with block bonding between rings
NR/CIV/SD/104	A	05/09/09	Re-casing of defective brickwork in arches and tunnel linings up to 4 rings
NR/CIV/SD/105	A	05/09/09	Single ring re-casing of defective brickwork in arches and tunnel linings up to 4 rings
NR/CIV/SD/106	A	05/09/09	Brick arch ring and tunnel lining cross pinning and grouting system
NR/CIV/SD/107	A	05/09/09	Stitching of longitudinal cracks in arches and tunnel lining between brick spandrel/voussoir and arch barrel
NR/CIV/SD/108	A	05/09/09	Stitching rotational cracks
NR/CIV/SD/109	A	05/09/09	Stitching of shear cracks
NR/CIV/SD/110	A	05/09/09	Stitching of longitudinal cracks in brickwork
NR/CIV/SD/111	A	05/09/09	Spot replacement of bricks
NR/CIV/SD/112	A	05/09/09	Temporary works arrangements
NR/CIV/SD/113	A	05/09/09	Re-casing jack arches
NR/CIV/SD/114	A	05/09/09	Temporary works arrangements using shoring for live load conditions
NR/CIV/SD/115	A	05/09/09	Masonry refurbishment
NR/CIV/SD/116	A	05/09/09	Re-casing vertical walls
NR/CIV/SD/120	A	05/09/09	Tie bar/pattress plate assembly options
NR/CIV/SD/121	A	05/09/09	Pattress plate details

A2: Geotechnical structures and drainage works			
A2.1: Retaining walls			
NR/CIV/SD/200	B	02/06/12	Typical retaining wall: key and general notes
NR/CIV/SD/201	C	03/03/12	Gabion retaining wall
NR/CIV/SD/202	D	02/06/12	Precast retaining wall
NR/CIV/SD/203	A	03/03/12	Modular block retaining wall
NR/CIV/SD/204	D	03/03/12	Sheet pile wall [Up to issue 5 of the Index some of the details in this drawing were provided in SD/203]
NR/CIV/SD/205	D	03/03/12	Sheet pile capping beam [Up to issue 5 of the Index the details in this drawing were provided in SD/206]
NR/CIV/SD/S205	D	03/03/12	Sheet pile capping beam: bar bending schedule
NR/CIV/SD/206	C	03/03/12	Bored pile wall [Up to issue 5 of the Index the details in this drawing were provided in SD/204]
NR/CIV/SD/207	A	03/03/12	Driven kingpost retaining wall
NR/CIV/SD/208	A	03/03/12	Bored pile kingpost retaining wall
NR/CIV/SD/209	A	03/03/12	Bored pile retaining wall reinforcement details
NR/CIV/SD/S209	A	03/03/12	Bored pile retaining wall: bar bending schedule
A2.2: Embankment regrading			
NR/CIV/SD/230	D	03/03/12	Slope regrade
NR/CIV/SD/231	B	03/03/12	Slope regrade details
A2.3: Ecological works			
NR/CIV/SD/240	A	03/03/12	General information
NR/CIV/SD/241	P03	03/03/12	Rabbit netting: general
NR/CIV/SD/242	A	03/03/12	Rabbit netting: embedment
NR/CIV/SD/243	A	03/03/12	Grouting of burrows
NR/CIV/SD/244	A	03/03/12	Great crested newt alternative habitat creation
NR/CIV/SD/245	A	03/03/12	Water vole alternative habitat creation
NR/CIV/SD/246	A	03/03/12	Artificial badger sett creation
NR/CIV/SD/247	A	03/03/12	Badger meshing
NR/CIV/SD/248	A	03/03/12	Treatment/exclusion from existing badger setts
A2.4: Ballast/cess support structures			
NR/CIV/SD/260	E	02/06/12	Selection table and generic notes
NR/CIV/SD/261	C	03/03/12	Unanchored driven tubular pile, Armco type
NR/CIV/SD/262	D	02/06/12	Unanchored driven tubular pile, panel type [Up to issue 5 of the Index the details in this drawing were provided in SD/264]
NR/CIV/SD/263	D	03/03/12	Unanchored kingpost wall

NR/CIV/SD/264	C	03/03/12	Unanchored driven tubular pile [Up to issue 5 of the Index the details in this drawing were provided in SD/263]
NR/CIV/SD/265	B	02/06/12	Anchored driven tubular pile, panel type [Up to issue 5 of the Index the details in this drawing were provided in SD/260]
NR/CIV/SD/266	A	03/03/12	Gabion wall [Up to issue 5 of the Index the details in this drawing were provided in SD/262]
NR/CIV/SD/267	A	03/03/12	Bored pile kingpost wall [Up to issue 5 of the Index the details in this drawing were provided in SD/261]
A2.5: Soil nails			
NR/CIV/SD/280	C	03/03/12	Soil nails general arrangement
NR/CIV/SD/281	A	03/03/12	Soil nails typical details
A2.6: Rock bolts and dowels			
NR/CIV/SD/285	B	03/03/12	Rock bolts/dowels general arrangement
NR/CIV/SD/286	A	03/03/12	Rock bolts (active) details
NR/CIV/SD/287	A	03/03/12	Rock dowels (passive) details
A2.7: Netting			
High tensile netting			
NR/CIV/SD/300	C	03/03/12	General arrangement
NR/CIV/SD/301	C	03/03/12	Typical details
Passive non-stressed netting			
NR/CIV/SD/310	C	03/03/12	General arrangement
NR/CIV/SD/311	C	03/03/12	Close netted face
NR/CIV/SD/312	C	03/03/12	Open base loose netting
NR/CIV/SD/313	C	03/03/12	Closed base loose netting
NR/CIV/SD/314	C	03/03/12	Top details
NR/CIV/SD/315	C	03/03/12	Base details
NR/CIV/SD/316	C	03/03/12	Intermediate and miscellaneous details
A2.8: Earthwork drains			
NR/CIV/SD/320	D	03/03/12	General arrangement: cuttings
NR/CIV/SD/321	D	03/03/12	General arrangement: embankments
NR/CIV/SD/322	D	03/03/12	Pipes, channels and ditches
NR/CIV/SD/323	D	03/03/12	Crest drain outfall
NR/CIV/SD/324	D	03/03/12	Cascade drain: CD1 Benched slope drain
NR/CIV/SD/325	D	03/03/12	Cascade drain: CD2 Half-round plastic profile
NR/CIV/SD/326	D	03/03/12	Cascade drain: CD3 Rock-fill cascade
NR/CIV/SD/327	D	03/03/12	Slope drainage details RD1, RD2, RD3
NR/CIV/SD/328	C	03/03/12	Toe drainage details
NR/CIV/SD/329	B	03/03/12	Headwall: H2 Large diameter culvert
NR/CIV/SD/330	B	03/03/12	Headwall: standard details
NR/CIV/SD/350	B	03/03/12	Standard cess drain, 6ft drain and UTX drain

NR/CIV/SD/351	C	03/03/12	Catchpit
[Up to issue 5 of the Index the details on Earthwork drains were provided in SD/320 to SD/328, but these have been replaced in their entirety by the above drawings.]			
A2.9: Miscellaneous			
Site access steps			
NR/CIV/SD/370	A	05/09/09	Typical access steps
Boundary fencing			
NR/CIV/SD/380	A	05/09/09	Boundary fencing 2.0m palisade 1.35/1.80m HT strained wire "Exeter" type HT wire
Earthworks instrumentation			
NR/CIV/SD/390	B	05/09/09	Earthworks instrumentation

A3: Footbridges non-station			
NR/CIV/SD/400	A	05/09/09	Introduction
NR/CIV/SD/401	A	05/09/09	Footbridge superstructure Option 1 - main span stepped deck
NR/CIV/SD/402	A	05/09/09	Footbridge superstructure Option 2 - main span flat deck
A3.1: Footbridge superstructure			
Main span			
NR/CIV/SD/405	A	05/09/09	Structural details Sheet 1 of 2
NR/CIV/SD/406	A	05/09/09	Structural details Sheet 2 of 2
NR/CIV/SD/410	A	05/09/09	Furniture details
NR/CIV/SD/420	A	05/09/09	Support CHS columns
NR/CIV/SD/421	A	05/09/09	Support four leg trestle Sheet 1 of 2
NR/CIV/SD/422	A	05/09/09	Support four leg trestle Sheet 2 of 2
Stair/ramp support			
NR/CIV/SD/430	A	05/09/09	CHS columns
NR/CIV/SD/431	A	05/09/09	Two leg trestle
Abutment/cill beam support landing details			
NR/CIV/SD/440	A	05/09/09	Option 1 no future ramp
NR/CIV/SD/441	A	05/09/09	Option 1 with future ramp
NR/CIV/SD/442	A	05/09/09	Option 2 no future ramp
NR/CIV/SD/443	A	05/09/09	Option 2 with future ramp
A3.2: Footbridge access			
Stringer staircase			
NR/CIV/SD/450	A	05/09/09	Stringer staircase
NR/CIV/SD/451	A	05/09/09	Stringer staircase with 180° turn
NR/CIV/SD/452	A	05/09/09	Stringer stair details
NR/CIV/SD/453	A	05/09/09	Landing details
NR/CIV/SD/454	A	05/09/09	Main span landing option 1 no future ramp
NR/CIV/SD/455	A	05/09/09	Main span landing option 1 with future

			ramp
NR/CIV/SD/456	A	05/09/09	Half landing details
NR/CIV/SD/457	A	05/09/09	Main span landing option 2 no future ramp
NR/CIV/SD/458	A	05/09/09	Main span landing option 2 with future ramp
Trestle stair			
NR/CIV/SD/459	A	05/09/09	Trestle stair details
NR/CIV/SD/460	A	05/09/09	Option 1 no future ramp
NR/CIV/SD/461	A	05/09/09	Option 1 with future ramp
NR/CIV/SD/462	A	05/09/09	Half landing details
NR/CIV/SD/463	A	05/09/09	Main span landing option 2 no future ramp
NR/CIV/SD/464	A	05/09/09	Main span landing option 2 with future ramp
Truss staircase			
NR/CIV/SD/470	A	05/09/09	General arrangement straight
NR/CIV/SD/471	A	05/09/09	General arrangement 180 deg turn
NR/CIV/SD/472	A	05/09/09	Truss staircase details
NR/CIV/SD/473	A	05/09/09	Half landing details
NR/CIV/SD/474	A	05/09/09	Main span landing option 1 no future ramp
NR/CIV/SD/475	A	05/09/09	Main span landing option 1 with future ramp
NR/CIV/SD/476	A	05/09/09	Main span landing option 2 no future ramp
NR/CIV/SD/477	A	05/09/09	Main span landing option 2 with future ramp
Standard ramp			
NR/CIV/SD/480	A	05/09/09	General arrangement
NR/CIV/SD/481	A	05/09/09	180 deg ramp (type 1) general arrangement
NR/CIV/SD/482	A	05/09/09	180 deg ramp (type 2) general arrangement
NR/CIV/SD/483	A	05/09/09	Ramp to main landing general arrangement
NR/CIV/SD/484	A	05/09/09	Bottom ramp
NR/CIV/SD/485	A	05/09/09	Typical ramp details Sheet 1 of 4
NR/CIV/SD/486	A	05/09/09	Typical ramp furniture details Sheet 2 of 4
NR/CIV/SD/487	A	05/09/09	Typical ramp details Sheet 3 of 4
NR/CIV/SD/488	A	05/09/09	Typical ramp details Sheet 4 of 4
Other			
NR/CIV/SD/490	A	05/09/09	Drainage philosophy
NR/CIV/SD/491	A	05/09/09	Corduroy tactile surface locations
NR/CIV/SD/495	A	05/09/09	Footbridge access Lifting point details Sheet 1 of 2
NR/CIV/SD/496	A	05/09/09	Footbridge access Lifting point details Sheet 2 of 2
NR/CIV/SD/498	A	05/09/09	Erection sequence CHS supported footbridge

NR/CIV/SD/499	A	05/09/09	Erection sequence Trestle supported footbridge
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A4: Tunnels			
A4.1: Ring dams and Shaft grilles			
NR/CIV/SD/500	A	05/09/09	Ring dam Sheet 1 of 2
NR/CIV/SD/501	A	05/09/09	Ring dam sheet 2 of 2
NR/CIV/SD/502	A	05/09/09	Shaft grille for 2m to 4m dia. tunnel shaft Sheet 1 of 2
NR/CIV/SD/503	A	05/09/09	Shaft grille for 2m to 4m dia. tunnel shaft Sheet 2 of 2
A4.2: Lining maintenance repairs			
NR/CIV/SD/520	A	05/06/10	Specification for the works
NR/CIV/SD/521	A	05/06/10	Standard brickwork bonds
NR/CIV/SD/522	A	05/06/10	Re-casing of defective brickwork in tunnel linings greater than 4 rings with header bonding between rings
NR/CIV/SD/523	A	05/06/10	Re-casing of defective brickwork in tunnel linings up to 4 rings
NR/CIV/SD/524	A	05/06/10	Single ring re-casing of defective brickwork in tunnel linings up to 4 rings
NR/CIV/SD/525	A	05/06/10	Tunnel lining cross pinning and grouting
NR/CIV/SD/526	A	05/06/10	Stitching of cracks between brick spandrel/voussoir and tunnel lining
NR/CIV/SD/527	A	05/06/10	Stitching of cracks
NR/CIV/SD/528	A	05/06/10	Stitching of transverse cracks in brickwork
NR/CIV/SD/529	A	05/06/10	Spot replacement of bricks
NR/CIV/SD/530	A	05/06/10	Typical centring arrangements
NR/CIV/SD/531	A	05/06/10	Re-casing jack arches in cut and cover tunnels
NR/CIV/SD/532	A	05/06/10	Stone masonry refurbishment
NR/CIV/SD/533	A	05/06/10	Re-casing vertical walls
NR/CIV/SD/540	A	05/06/10	Sprayed concrete patch repairs to walls
NR/CIV/SD/541	A	05/06/10	Sprayed concrete patch repairs to crown/haunch
A4.3: Sprayed concrete lining renewal			
NR/CIV/SD/550	A	04/09/10	Overspray in crown
NR/CIV/SD/551	A	04/09/10	Haunch breakout and replacement
NR/CIV/SD/552	A	04/09/10	Upper haunch breakout and replacement
NR/CIV/SD/553	A	04/09/10	Crown breakout and replacement
NR/CIV/SD/554	A	04/09/10	Side wall breakout and renewal
NR/CIV/SD/555	A	04/09/10	Miscellaneous details

A4.4: Shaft liner plates			
NR/CIV/SD/560	A	04/09/10	Height of repair 5m or greater: General arrangement
NR/CIV/SD/561	A	04/09/10	Height of repair less than 5m: General arrangement
NR/CIV/SD/562	A	04/09/10	Construction sequence
NR/CIV/SD/563	A	04/09/10	GRP panels and details
A4.5: Energy absorption deck			
NR/CIV/SD/570	A	04/09/10	Energy absorption deck
A4.6: Emergency temporary repair system			
NR/CIV/SD/580	A	04/09/10	In Tunnels without OLE
NR/CIV/SD/581	A	04/09/10	In Tunnels without OLE
A4.7: Rockbolt consumables and testing			
NR/CIV/SD/590	A	04/09/10	Standard details
NR/CIV/SD/591	A	04/09/10	Standard procedure for performance testing of rockbolts using S.E.P.T

A5: Collision protection beams			
NR/CIV/SD/600	A	05/09/09	General arrangement
NR/CIV/SD/601	A	05/09/09	Cill beam option
NR/CIV/SD/602	A	05/09/09	Steel frame option
NR/CIV/SD/603	A	05/09/09	Abutment extension option
NR/CIV/SD/604	A	05/09/09	Steel stool option
NR/CIV/SD/605	A	05/09/09	Steelwork details

A6: Miscellaneous and ancillary structures			
A6.1: Undertrack crossings: Open cut method			
NR/CIV/SD/610	C	03/03/12	Undertrack crossing: open cut method
A6.2: Modular staging			
NR/CIV/SD/615	C	03/03/12	Foundations details for typical modular staging
NR/CIV/SD/616	A	03/03/12	Platform details for typical FRP & steel modular staging
A6.3: Relocatable Equipment Buildings and Trackside Equipment Housings			
NR/CIV/SD/620	C	03/03/12	Typical REB foundation
NR/CIV/SD/621	C	03/03/12	Typical TEH foundation
NR/CIV/SD/622	A	03/03/12	Typical modular building (REB) grillage details
A6.4: Concrete repair (of spalling)			
NR/CIV/SD/630	A	05/09/09	Typical spalled concrete repairs

A6.5: Steelwork repairs			
NR/CIV/SD/640	B	02/06/12	Typical top hat strengthening detail Sheet 1 of 2
NR/CIV/SD/641	B	02/06/12	Typical top hat strengthening detail Sheet 2 of 2
NR/CIV/SD/642	A	05/09/09	Typical web stiffener replacement
A6.6: Deck waterproofing			
NR/CIV/SD/650	A	05/09/09	Typical deck waterproofing details
NR/CIV/SD/651	A	05/09/09	Typical semi-integral bridge waterproofing details
NR/CIV/SD/652	A	05/09/09	Typical integral and masonry arch bridge waterproofing details
A6.7: Paint repairs			
NR/CIV/SD/660	A	05/09/09	Concrete encased metallic elements and patch repairs to existing metallic structures
A6.8: Location case bases			
NR/CIV/SD/665	A	03/03/12	Typical location case base details
A6.9: Cess walkways			
NR/CIV/SD/670	A	03/03/12	Cess walkway type 'A'
NR/CIV/SD/671	A	03/03/12	Cess walkway type 'B'
NR/CIV/SD/672	A	03/03/12	Cess walkway type 'C'
NR/CIV/SD/673	A	03/03/12	Cess walkway types 'D' and 'E'

A7: Footbridge non-mainline stations			
A7.1: General			
NR/CIV/SD/700	A	05/09/09	Introduction
A7.2: Drainage			
NR/CIV/SD/710	A	05/09/09	Surface drainage overview
NR/CIV/SD/711	A	05/09/09	Main span option 1
NR/CIV/SD/712	A	05/09/09	Main span option 2
NR/CIV/SD/713	A	05/09/09	Stairs sheet 1 of 2
NR/CIV/SD/714	A	05/09/09	Stairs sheet 2 of 2
NR/CIV/SD/715	A	05/09/09	Ramps sheet 1 of 2
NR/CIV/SD/716	A	05/09/09	Ramps sheet 2 of 2
NR/CIV/SD/717	A	05/09/09	Supports
A7.3: Lighting			
NR/CIV/SD/720	A	05/09/09	General arrangement
NR/CIV/SD/721	A	05/09/09	Lighting details Sheet 1 of 2
NR/CIV/SD/722	A	05/09/09	Lighting details Sheet 2 of 2
NR/CIV/SD/723	A	05/09/09	Electrical trunking Main span option 1
NR/CIV/SD/724	A	05/09/09	Electrical trunking Main span option 2

A7.4: Other			
NR/CIV/SD/730	A	05/09/09	Lift link platform general arrangement

A8: Box girder underbridges [Eurocode compliant]			
A8.1: General			
NR/CIV/SD/1001	B	05/03/11	Index of drawings
NR/CIV/SD/1002	C	05/03/11	Key to types
NR/CIV/SD/1003	B	05/03/11	General notes
A8.2: Double track - 2 girders			
NR/CIV/SD/1010	B	05/03/11	Typical arrangement of 24 m span 55° skew
NR/CIV/SD/1011	B	05/03/11	Typical cross sections - 21 m, 24 m and 27 m spans
NR/CIV/SD/1012	B	05/03/11	Typical cross sections - 30 m, 33 m, 36 m and 39 m spans
Main girder			
NR/CIV/SD/1013	B	05/03/11	Sizes
NR/CIV/SD/1014	B	05/03/11	Details Sheet 1 of 2
NR/CIV/SD/1015	B	05/03/11	Details Sheet 2 of 2
NR/CIV/SD/1016	B	05/03/11	Girder inspection units Sheet 1 of 2
NR/CIV/SD/1017	B	05/03/11	Girder inspection units Sheet 2 of 2
NR/CIV/SD/1018	B	05/03/11	End diaphragm access doors and louvre details
Wide floors			
NR/CIV/SD/1020	B	05/03/11	0° skew Sheet 1 of 2
NR/CIV/SD/1021	B	05/03/11	0° skew Sheet 2 of 2
NR/CIV/SD/1022	B	05/03/11	0-20° skew Sheet 1 of 2
NR/CIV/SD/1023	B	05/03/11	0-20° skew Sheet 2 of 2
NR/CIV/SD/1024	B	05/03/11	>20-30° skew Sheet 1 of 4
NR/CIV/SD/1025	B	05/03/11	>20-30° skew - Sheet 2 of 4
NR/CIV/SD/1026	B	05/03/11	>20-30° skew - Sheet 3 of 4
NR/CIV/SD/1027	B	05/03/11	>20-30° skew - Sheet 4 of 4
NR/CIV/SD/1028	B	05/03/11	>30-55° skew - Sheet 1 of 4
NR/CIV/SD/1029	B	05/03/11	>30-55° skew - Sheet 2 of 4
NR/CIV/SD/1030	B	05/03/11	>30-55° skew - Sheet 3 of 4
NR/CIV/SD/1031	B	05/03/11	>30-55° skew - Sheet 4 of 4
NR/CIV/SD/1032	B	05/03/11	Alternative trimmer >30-40° skew Sheet 1 of 2
NR/CIV/SD/1033	B	05/03/11	Alternative trimmer >30-40° skew Sheet 2 of 2
NR/CIV/SD/1034	B	05/03/11	Alternative trimmer >35-55° skew Sheet 1 of 3

NR/CIV/SD/1035	B	05/03/11	Alternative trimmer >35-55° skew Sheet 2 of 3
NR/CIV/SD/1036	B	05/03/11	Alternative trimmer >35-55° skew Sheet 3 of 3
NR/CIV/SD/1037	B	05/03/11	Alternative trimmer Typical details 30-40° skew; 35-55° skew
Wide and narrow floors			
NR/CIV/SD/1038	B	05/03/11	Shear plate details
NR/CIV/SD/1039	B	05/03/11	Rib/trimmer connections >20-55° skew
Narrow floors			
NR/CIV/SD/1040	B	05/03/11	0-20° skew
NR/CIV/SD/1041	B	05/03/11	>20-40° skew
NR/CIV/SD/1042	B	05/03/11	>40-55° skew
Shallow narrow floors			
NR/CIV/SD/1043	B	05/03/11	0-20° skew
NR/CIV/SD/1044	B	05/03/11	>20-40° skew
NR/CIV/SD/1045	B	05/03/11	>40-55° skew
NR/CIV/SD/1046	B	05/03/11	Rib/trimmer connections >20-55° skew
Narrow floors Alternative trimmer			
NR/CIV/SD/1047	B	05/03/11	>30-50° skew Sheet 1 of 2
NR/CIV/SD/1048	B	05/03/11	>30-50° skew Sheet 2 of 2
NR/CIV/SD/1049	B	05/03/11	>50-55° skew Sheet 1 of 2
NR/CIV/SD/1050	B	05/03/11	>50-55° skew Sheet 2 of 2
A8.3: Double track - 3 girders			
NR/CIV/SD/1060	B	05/03/11	Typical arrangement of 27 m span 55° skew
A8.4: Single track - 2 girders and Double track - 3 girders			
NR/CIV/SD/1061	B	05/03/11	Typical cross section showing minimum floor width and reduced ballast
NR/CIV/SD/1062	B	05/03/11	Typical cross section at bearings
A8.5: Single track - 2 girders			
NR/CIV/SD/1063	B	05/03/11	Typical arrangement of 27 m span 55° skew
A8.6: Single track - 2 girders and Double track - 3 girders			
NR/CIV/SD/1070	B	05/03/11	Main girder sizes
NR/CIV/SD/1071	B	05/03/11	Main girder details 1 - outer girder
NR/CIV/SD/1072	B	05/03/11	Main girder details 2 - centre girder
NR/CIV/SD/1073	B	05/03/11	Girder inspection units Sheet 1 of 2
NR/CIV/SD/1074	B	05/03/11	Girder inspection units Sheet 2 of 2
NR/CIV/SD/1080	B	05/03/11	0° skew
NR/CIV/SD/1081	B	05/03/11	0-30° skew
NR/CIV/SD/1082	B	05/03/11	>30-55° skew
NR/CIV/SD/1083	B	05/03/11	>30-55° skew details Sheet 1 of 2

NR/CIV/SD/1084	B	05/03/11	>30-55° skew details Sheet 2 of 2
NR/CIV/SD/1085	B	05/03/11	Shear plate details
A8.7: Ballast plates			
NR/CIV/SD/1090	B	05/03/11	Ballast plates
A8.8: Double track - 2 girders			
Bearings			
NR/CIV/SD/1100	B	05/03/11	Fixed end 21 m, 24 m and 27 m spans
NR/CIV/SD/1101	B	05/03/11	Fixed end 30 m, 33 m, 36 m and 39 m spans
NR/CIV/SD/1102	B	05/03/11	Free end 21 m, 24 m and 27 m spans
NR/CIV/SD/1103	B	05/03/11	Free end 30 m, 33 m, 36 m and 39 m spans
NR/CIV/SD/1104	B	05/03/11	Miscellaneous details
A8.9: Double track - 3 girders and Single track - 2 girders			
NR/CIV/SD/1110	B	05/03/11	Outer girder bearings Fixed end 21 m, 24 m and 27 m spans
NR/CIV/SD/1111	B	05/03/11	Outer girder bearings Free end 21 m, 24 m and 27 m spans
NR/CIV/SD/1112	B	05/03/11	Centre girder bearings Fixed end 21 m, 24 m and 27 m spans
NR/CIV/SD/1113	B	05/03/11	Centre girder bearings Free end 21 m, 24 m and 27 m spans
NR/CIV/SD/1114	B	05/03/11	Bearings Miscellaneous details
A8.10: Vehicle collision restraining device			
NR/CIV/SD/1120	B	05/03/11	Single track - 2 girders and Double track - 2 or 3 girders General arrangement 1
NR/CIV/SD/1121	B	05/03/11	Double track - 3 girders General arrangement 2 Centre girder
NR/CIV/SD/1122	B	05/03/11	Single track - 2 girders and Double track - 2 or 3 girders Details of Type 1 and 2 devices
NR/CIV/SD/1123	B	05/03/11	Single track - 2 girders and Double track - 2 or 3 girders Details of Type 3 device
A8.11: Corrosion protection			
NR/CIV/SD/1130	B	05/03/11	Main girders and General notes
NR/CIV/SD/1131	B	05/03/11	Floor and ballast plates
NR/CIV/SD/1132	B	05/03/11	Girder inspection units and other girder end parts
NR/CIV/SD/1133	B	05/03/11	Bearings
A8.12: Waterproofing			
NR/CIV/SD/1141	B	05/03/11	Standard deck end arrangement
A8.13: Lifting cleats for main girders			
NR/CIV/SD/1150	B	05/03/11	Using 2 cranes
NR/CIV/SD/1151	B	05/03/11	Using single crane

A9: Underbridges			
A9.1: Z-Type [Eurocode compliant]			
General Information			
NR/CIV/SD/1200	B	04/09/10	Index of drawings
NR/CIV/SD/1201	B	04/09/10	Key to types
NR/CIV/SD/1202	C	02/06/12	General notes and H&S risk register
Steelwork general assembly details			
NR/CIV/SD/1210	B	04/09/10	Notes
NR/CIV/SD/1211	B	04/09/10	Square filler beam floor
NR/CIV/SD/1212	B	04/09/10	0° to 25° skew filler beam floor
NR/CIV/SD/1213	B	04/09/10	25° to 50° skew filler beam floor
NR/CIV/SD/1215	B	04/09/10	Square steel floor
NR/CIV/SD/1216	B	04/09/10	0° to 25° skew steel floor Sheet 1 of 2
NR/CIV/SD/1217	B	04/09/10	0° to 25° skew steel floor Sheet 2 of 2
NR/CIV/SD/1218	B	04/09/10	25° to 50° skew steel floor
Main girder			
NR/CIV/SD/1220	B	04/09/10	Notes
NR/CIV/SD/1221	B	04/09/10	Sizes Filler beam floor Deep girders
NR/CIV/SD/1222	B	04/09/10	Sizes Filler beam floor Shallow girders 300mm ballast
NR/CIV/SD/1223	B	04/09/10	Sizes Filler beam floor Shallow girders 200 to 300mm ballast
NR/CIV/SD/1224	B	04/09/10	Steelwork details Filler beam floor
NR/CIV/SD/1225	C	02/06/12	Steel floor Deep girders
NR/CIV/SD/1226	B	04/09/10	Steel floor Shallow girders 300mm ballast
NR/CIV/SD/1227	B	04/09/10	Steel floor Shallow girders 200mm ballast
NR/CIV/SD/1228	B	04/09/10	Steelwork details Steel floor
Cross girder and trimmer girder			
NR/CIV/SD/1230	B	04/09/10	Floor steelwork and trimmer details Notes
NR/CIV/SD/1231	B	04/09/10	0° to 25° skew filler beam floor
NR/CIV/SD/1232	B	04/09/10	25° to 50° skew filler beam floor
Transverse rib and trimmer girder			
NR/CIV/SD/1235	B	04/09/10	Square steel floor
NR/CIV/SD/1236	B	04/09/10	0° to 25° skew steel floor
NR/CIV/SD/1237	B	04/09/10	25° to 50° skew steel floor Sheet 1 of 2
NR/CIV/SD/1238	B	04/09/10	25° to 50° skew steel floor Sheet 2 of 2
NR/CIV/SD/1239	B	04/09/10	Details of transverse rib to trimmer girder connections All skews
Bearings			
NR/CIV/SD/1240	B	04/09/10	Notes
NR/CIV/SD/1241	B	04/09/10	Standard bearing details
Protective treatment			
NR/CIV/SD/1250	B	04/09/10	Notes